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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/057,991
		Filing Date	January 29, 2002
		First Named Inventor	Handelman
		Group Art Unit	
		Examiner Name	
Sheet	1	of	8
		Attorney Docket Number	

U.S. PATENT DOCUMENTS						
Examiners Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, columns, lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
AC	AA	4,626,075		Chemla	12-2-1986	
AC	AB	5,170,273		Nishio	12-8-1992	
AC	AC	5,191,457		Yamazaki	3-2-1993	
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AC	AP	6,108,112		Touma	8-22-2000	
AC	AQ	6,233,082		Johnson	05-15-2001	

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AC	AR	Mining the Optical Bandwidth for a Terabit per second, Alan Wilner, IEEE Spectrum, April 1997, Pages 32-41	
AC	AS	Record Data-Transmission Rate Reported at ECOC '96, Laser Focus World, November 1996, pages 40-42	

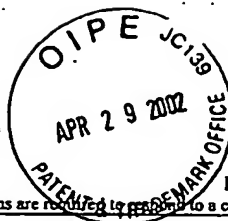
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
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nc	AT	Multiple Wavelengths Exploit Fiber Capacity, Eric Lerner, Laser Focus World, July 1997, pages 119-125
nc	AU	Advances in Dense WDM push diode-laser design, Diana Zankowsky, Laser Focus World, August 1997, pages 167-171
nc	AV	Multistage Amplifier Provides Gain across 80 nm, pages 22-23
nc	AW	Optical Switching Promises cure for telecommunications logjam, Jeff Hecht, Laser Focus World, September 1998, pages 69-72
nc	AX	The Communications Handbook, Jeffrey Gibson, 1997, pages 883-890
nc	AY	WDM Local Area Networks, Kazovsky et al., IEEE LTS, May 1992, pages 8-15
nc	AZ	Optical Switches Ease Bandwidth Crunch, Europhotonics, Rien Flipse, August/September 1998, pages 44-45
nc	BA	Speed Demons: Is 'Faster' Better and Cheaper? Stephanie Weiss, Photonics Spectra, February 1999, pages 96-102
nc	BB	Wavelength Lockers Keep Lasers in Line, Ed Miskovic, Photonics Spectra, February 1999, pages 104-110
nc	BC	Optical Switches Pursue Crossconnect Markets, Hassaun Jones-Bey, Laser Focus World, May 1998, pages 153-162
nc	BD	Demand Triggers Advances in Dense WDM Components, Raymond Nering, Optoelectronics World, September 1998, pages S5-S8
nc	BE	Optical Networks, Hector Escobar, Photonics Spectra, December 1998, pages 163-167

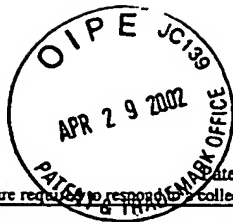
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mc	BF	Ultrafast Optical Switch Unveiled, Photonics Spectra, Michael Wheeler, December 1998, page 42	
mc	BG	Data Express, Gigabit Junction with the Next-Generation Internet, John Collins et al, IEEE Spectrum, February 1999, pages 18-25	
mc	BH	Designing Broadband Fiber Optic Communications Systems, Juan Lam, Communication Systems Design, February 1999	
mc	BI	Terabit-Transmission Demonstrations make a splash at OFC '96, Laser Focus World, April 1996, page 13	
mc	BJ	Multigigabit Networks: The Challenge, Claude Rolland et al., IEEE LTD, May 1992, pages 16-26	
mc	BK	Direct Detection Lightwave Systems: Why Pay More? Paul Green et al., IEEE LCS, November 1990, pages 36-49	
mc	BL	Photonics in Switching, Scott Hinton, IEEE LTD, August 1992, pages 26-35	
mc	BM	Advanced Technology for Fiber Optic Subscriber Systems, Hiromu Taba et al., IEEE LTS, November 1992, pages 12-18	
mc	BN	Fiber Amplifiers Expand Network Capacities, Eric Lerner, Laser Focus World, August 1997, pages 85-96	
mc	BO	Technologies for Local-Access Fiber, Yukou Mochida, IEEE Communications Magazine, February 1994, pages 64-72	
mc	BP	Wavelength Assignment in Multiplex Lightwave Networks, Aura Ganz et al., IEEE Transactions on Communications, Vol. 42, No. 7, July 1994, pages 2460-2469	
mc	BQ	Wavelength-Division Switching Technology in Photonic Switching Systems, Suzuki et al., IEEE International Conference on Communications, ICC 1990, pages 1125-1129	

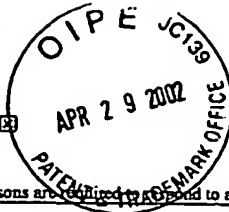
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nc	BR	Branch-Exchange Sequences for Reconfiguration of Lightwave Networks, Labourdette et al., IEEE Transactions on Communications, Vol. 42, No. 10, October 1994, pages 2822-2832	
nc	BS	Use of Delegated Tuning and Forwarding in Wavelength Division Multiple Access Networks, Auerbach et al., IEEE Transactions on Communications, Vol. 43, No. 1, January 1995, pages 52-63	
nc	BT	Design and Cost Performance of the Multistage WDN-PON Access Network, Guido Maier et al., Journal of Lightwave Technology, Vol. 18, No. 2, February 2000, pages 125-143	
nc	BU	Polarization Insensitive Widely Tunable All-Optical Clock Recovery Based on AM Mode-Locking of a Fiber Ring Laser, IEEE Photonics Technology Letters, Vol. 12, No. 2, February 2000, pages 211-213	
nc	BV	Ultra-High-Speed PLL-Type Clock Recovery Circuit Based on All-Optical Gain Modulation in Traveling-Wave Laser Diode Amplifier, Journal of Lightwave Technology, Vol. 11, No. 12, December 1993, pages 2123-2129	
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nc	BX	Photons at Work: Optical Networks on the Rise, Lee Goldberg, Electronic Design, March 22, 1999, pages 56-66	
nc	BY	Asynchronous Time Division Switching, Achille Pattavina, IEEE Communication Handbook, 1997, pages 686-700	
nc	BZ	Multiple Access Methods for Communications Networks, Izhak Rubin, IEEE Communications Handbook, 1997, pages 622-649	

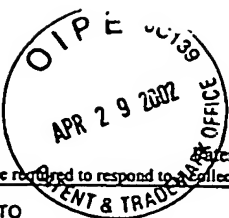
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AC	CA	Combining Gratings and Filters Reduces WDM Channel Spacing, Pan and Shi, OptoElectronics World, September 1998, pages S11-S17	
AC	CB	Picosecond-Accuracy All-Optical Bit Phase Sensing Using a Nonlinear Optical Loop Mirror, Hall et al., IEEE Photonics Technology Letters, Vol. 7, No. 8, August 1995, pages 935-937	
AC	CC	An Ultrafast Variable Optical Delay Technique, Hall et al., IEEE Photonics Technology Letters, Vol. 12, No. 2, February 2000, pages 208-210	
AC	CD	Prescaled 6.3 GHz clock recovery from 50 Gbit/s TDM Optical Signal with 50 GHz PLL using four-wave mixing in a travelling wave laser diode optical amplifier, Electronics Letters, 12 May 1994, Vol. 30, No. 10, pages 807-809	
AC	CE	Variable Optical delay line with diffraction limited Autoalignment, Klovekorn and Munch, Applied Optics, April 1, 1998, Vol. 37, No. 10, pages 1903-1904	
AC	CF	Compact 40 Gbit/s Optical Demultiplexer using a GaInAsP Optical Amplifier, Electronics Letters, November 25, 1993, Vol. 29, No. 24, pages 2115-2116	
AC	CG	Lucent Upgrades WaveStar to 320-Channel, 800-Gb/s Transmission; Chalmers Develops 49-dB Optical Parametric Amplifier, Photonics Spectra, June 2000, page 46	
AC	CH	Bit-Rate Flexible All-Optical Demultiplexing Using a Nonlinear Optical Loop Mirror, Patrick et al., Electronics Letters, April 15, 1993, Vol. 29, No. 8, pages 702-703	
AC	CI	All-Optical High Speed Demultiplexing with a Semiconductor Laser Amplifier in a Loop Mirror Configuration, Eiselt et al., Electronics Letters, June 24, 1993, Vol. 29, No. 13, pages 1167-1168	
AC	CJ	Optical Amplifiers Revolutionize Communications, Laser Focus World, September 1998, pages 28-32	

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MC	CK	Single Interferometer Demultiplexes 40 Gbit/s Optical-Time-Division-Multiplexed Signal, Laser Focus World, November 1999, page 11	
MC	CL	Fiber-Optic Chips Multiplex 16 T1/E1 Channels Over One Cable, Electronic Design, April 17, 2000, page 46	
MC	CM	Analysis and Dimensioning of Switchless Networks for Single-Layer Optical Architecture, Binetti et al., Journal of Lightwave Technology, Vol. 18, No. 2, February 2000, pages 144-153	
MC	CN	100-Gbit/s Bitwise Logic, Hall et al., MIT Lincoln Laboratory, Optics Letters, Vol. 23, No. 16, August 15, 1998, pages 1271-1273	
MC	CO	An Optical Technique for Bit and Packet Synchronization, Blixt and Bowers, IEEE Photonics Technology Letters, Vol. 7, No. 1, January 1995, pages 123-125	
MC	CP	Double-Spreading Modulation Scheme Picks up Where CDMA and TDMA Leave Off, Electronics Designs, July 10, 2000, pages 28-32	
MC	CQ	Transmission of a True Single Polarisation 40 Gbit/s Soliton Data Signal Over 205km Using a Stabilised Erbium Fibre Ring Laser and 40 GHz Electronic Timing Recovery, Ellis et al., Electronic Letters, Vol. 29, No. 11, May 27, 1993, pages 990-992	
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MC	CS	The Fiber-Optic Subscriber Network in Japan, Wakui, IEEE Communications Magazine, February 1994, pages 56-63	
MC	CT	A Justification for a Variable Bandwidth Allocation Methodology for SONET Virtually Concatenated SPEs, Nevin JONES and Trevor WILSON, Lucent Technologies, July 10-14, 2000	
MC	CU	Higher Order SONET Virtual Concatenation, Nevin JONES, Paul LANGNER and Charles WEBB, Lucent Technologies, April 9, 1999	

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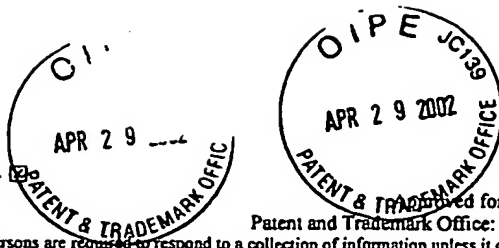
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me	CV	The Communications Handbook, 1997, Chapter 39, pages 542-553	
mc	CW	The Communications Handbook, 1997, Chapter 40, pages 554-564	
nc	CX	Architectural and Technological Issues for Future Optical Internet Networks, Listanti, et al., IEEE Communications Magazine, September 2000, pages 82-92	
nc	CY	IP Over Optical Networks: Architectural Aspects, Rajagopalan, et al., IEEE Communications Magazine, September 2000, pages 94-102	
nc	CZ	Labeled Optical Burst Switching for IP-over-WDM Integration, Chunming Qiao, IEEE Communications Magazine, September 2000, pages 104-114	
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me	DC	The Communications Handbook, Gibson, A CRC Handbook Published in Cooperation with IEEE Press, 1997 CRC Press, Inc., pages 513-528	
me	DD	A Proposed Link Capacity Adjustment Scheme (LCAS) for SONET Virtually Concatenated SPEs, Jones, et al., Lucent Technologies, T1X1.5/200-199, pages 1-30	
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me	DF	Spectral Equalization Keeps Optical Signals in Line, Ashmead, WDM Solutions, January 2001, pages 32-38 www.optoelectronics-world.com	
nc	DG	Keep Your Photons in Line, Wesson et al., Photonics Spectra, September 1999, pages 102-108	
nc	DH	Router Promises Faster Switching, Robinson, Photonics Technology World, Photonics Spectra, August 2001, page 24	

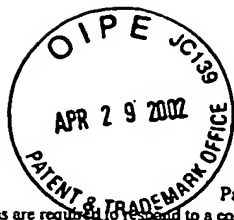
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nc	DI	On a Dynamic Wavelength Assignment Algorithm for Wavelength Routed All-Optical Networks, Andrei G. Stoica, et al., Optical Networks Magazine, January/February 2002, pages 68 – 80	RECEIVED MAY 01 2002 Technology Center 2600
nc	DJ	XOR: A Logical Choice of All-Optical Networks, Perry J. Greenbaum, IEEE Photonics Technology Letters, Vol. 13, July 2001, pp 750-752, Photonics Spectra, November 2001, pages 30 and 31	
nc	DK	On Adaptive Routing in Wavelength-Routed Networks, Ching-Fang Hsu, et al., Optical Networks Magazine, January/February 2002, pages 15 – 24	
nc	DL	A Comparative Study of Distributed Protocols for Wavelength Reservation in WDM Optical Networks, Debashis Saha, Optical Networks Magazine, January/February 2002, pages 45 52	
nc	DM	A Framework for Unified Traffic Engineering in IP over WDM Networks, Jinhan Song, et al., Optical Networks Magazine, November/December 2001, pages 28 – 33	
nc	DN	Optimization of Wavelength Allocation in WDM Optical Buffers, Franco Callegati, Optical Networks Magazine, November/December 2001, pages 66 – 72	
nc	DO	A Simple Dynamic Integrated Provisioning/Protection Scheme in IP over WDM Networks, Yinghua Ye, et al., IEEE Communications Magazine, November 2001, pages 174 – 182	
nc	DP	Photonic Packet Switching and Optical Label Swapping, Daniel J. Blumenthal, Optical Networks Magazine, November/December 2001, pages 54 – 65	
nc	DQ	Intelligent Optical Networking for Multilayer Survivability, Sophie de Maesschalck, et al., IEEE Communications Magazine, January 2002, pages 42 – 49	

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First Named Inventor	HANDELMAN
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Group Art Unit

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				Application Number	10/057,991
				Filing Date	January 29, 2002
				First Named Inventor	Handelman
				Group Art Unit	
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	

U.S. PATENT DOCUMENTS						
Examiners Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, columns, lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
MC	EA	4,726,010		Ali et al	02-16-1988	
MC	EB	5,319,484		Jacob et al	06-07-1994	
MC	EC	5,325,222		Jacob et al	06-28-1994	
MC	ED	5,416,625		Cavaciuti et al	05-16-1995	
MC	EE	5,953,138		Ellis, Andrew David	09-14-1999	
MC	EF	6,023,360		Morioka et al	02-08-2000	
MC	EG	6,204,944		Uchiyama et al	03-20-2001	
MC	EH	6,288,808		Lee et al	09-11-2001	
MC	EI	6,314,115		Delfyett et al	11-06-2001	

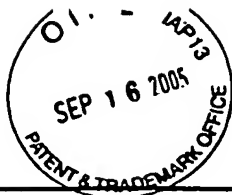
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MC	EJ	Variable optical delay circuit using wavelength converters, T. Sakamoto et al, Electronics Letters, Vol. 37, No. 7, 29 March 2001, Pages 454-455	

Examiner Signature		Date Considered	9/24/05
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				Application Number	10/057,991
				Filing Date	January 29, 2002
				First Named Inventor	Handelman
				Art Unit	
Examiner Name					
Sheet	1	of	1	Attorney Docket Number	

U.S. PATENT DOCUMENTS					
Examiner Initials ¹	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AC	FA	US-2003/0156841 A1	08-21-2003	Chraplyvy et al	

FOREIGN PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

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